

CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

1. A boring and conduit/pipe system for forming a hole through a wall and for pulling a linear member through the hole comprising, in combination:

an operator controlled drill with a chuck rotatable about a central axis, the chuck having a water passageway there through along the central axis;

an extension rod having an interior end and an exterior end with a water passageway there between along the central axis, the exterior end being formed with male screw threads and the interior end being removably received by the chuck for rotation there with;

a primary bit having an interior end and an exterior end, the primary bit having a generally cylindrical section extending forwardly from the interior end and a conical section extending rearwardly from the exterior end, the conical section including four helical ridges along the length thereof, the primary bit including a water passageway formed of a large diameter bore extending forwardly from the interior end with four small diameter bores extending forwardly from the large diameter bore to an intermediate extent of the conical section for delivering jets of water from the chuck, extension rod, large diameter bore

and small diameter bores and to exterior of the primary bit between the ridges, the large diameter bore having female threads at the interior end for releasably coupling with the male threads of the extension rod for rotation there with to form a bore hole in a wall;

a secondary bit having an interior end and an exterior end, the secondary bit having a generally cylindrical section extending forwardly from the interior end and a conical section extending rearwardly from the exterior end, the secondary bit including a water passageway formed of a large diameter bore extending forwardly from the interior end with four small diameter bores extending forwardly from the large diameter bore to an intermediate extent of the conical section for delivering jets of water from the chuck, extension rod, large diameter bore and small diameter bores and to exterior of the secondary bit, the large diameter bore having female threads at the interior end for releasably coupling with the male threads of the extension rod for rotation there with, a central forward bore coupling the exterior end and the large diameter bore of the secondary bit with a length of line there through and an apertured insert in the large diameter bore, the line having an interior end coupled to the insert and an exterior end coupled to a winch whereby the primary bit may be removed from the extension rod after it has

moved through the wall and the secondary bit attached for retracting the secondary bit and line from the bore hole; and

a coupler having a rearward end couplable to a linear member adapted to be pulled through the bore hole and a forward end couplable to the rearward end of the secondary bit after the secondary bit and line have been retracted from the bore hole whereby the line and secondary bit and linear member may be pulled through the bore hole.

2. A boring system comprising:

an extension rod having an interior end and an exterior end formed with male screw threads;

a primary bit having a cylindrical interior end and a conical exterior end, with female threads at the interior end for releasably coupling with the extension rod;

a secondary bit having a cylindrical interior end and a conical exterior end, with female threads at the interior end for releasably coupling with the extension rod, and with a length of line coupled to the exterior end of the secondary bit; and

a coupler having a rearward end couplable to a linear member and a forward end couplable to the rearward end of the secondary bit whereby the line and secondary bit and linear member may be pulled through the bore hole.

3. The system as set forth in claim 2 and further including four helical ridges along the length of the conical section of the primary bit.

4. The system as set forth in claim 2 and further including a water passageway in the primary bit formed of a large diameter bore extending forwardly from the interior end with four small diameter bores extending forwardly from the large diameter bore to an intermediate extent of the conical section for delivering jets of water from the chuck, extension rod, large diameter bore and small diameter bores and to exterior of the primary bit.

5. The system as set forth in claim 2 and further including a water passageway in the secondary bit formed of a large diameter bore extending forwardly from the interior end with four small diameter bores extending forwardly from the large diameter bore to an intermediate extent of the conical section for delivering jets of water from the chuck, extension rod, large diameter bore and small diameter bores and to exterior of the secondary bit.